

Title (en)

Method and apparatus for image acquisition.

Title (de)

Bildaufnahmeverfahren und Apparat.

Title (fr)

Procédé et appareil pour l'acquisition d'images.

Publication

EP 0087518 A2 19830907 (EN)

Application

EP 82111856 A 19821221

Priority

US 35259782 A 19820226

Abstract (en)

A method and apparatus for image acquisition utilizing a non-planar beam of electro-magnetic radiation, such as, a hollow conical beam (16) of light, to illuminate at least a portion (18) of an object (62). The illuminated portion (18) of the object (62) is imaged on an array (44) of photosensitive elements to produce corresponding signals that are representative of the image on the array. These signals can be used to obtain identification information concerning the object (62) and guidance information for a plural axis manipulator employed in conjunction with the object. In one application the image acquisition apparatus is used in a robot (58) to provide control signals for guiding the robot tool (60) along a path, such as, a welding seam.

IPC 1-7

G01B 11/24; **G01B 11/02**

IPC 8 full level

G01B 11/00 (2006.01); **G01B 11/02** (2006.01); **G01B 11/24** (2006.01); **G01B 11/25** (2006.01); **G02B 26/10** (2006.01)

CPC (source: EP)

G01B 11/024 (2013.01); **G01B 11/2518** (2013.01)

Cited by

FR2551860A1; EP0143012A1; US4651283A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0087518 A2 19830907; **EP 0087518 A3 19851127**; JP S58148906 A 19830905

DOCDB simple family (application)

EP 82111856 A 19821221; JP 22309982 A 19821221